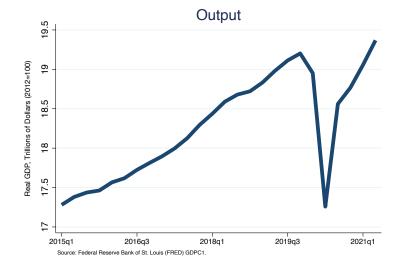
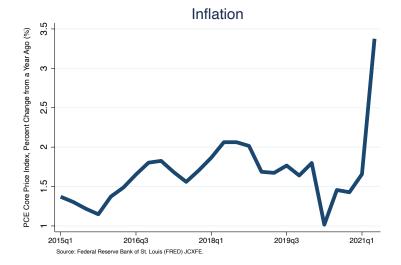
#### A Macroeconomic Analysis

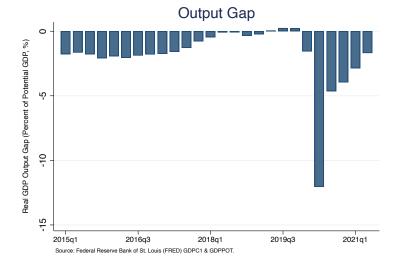
Pandemic and Policy

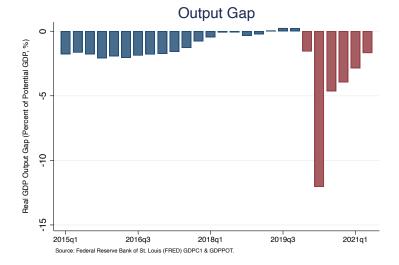
Joseph M. Santos Dykhouse Scholar in Money, Banking, and Regulation Ness School of Management and Economics

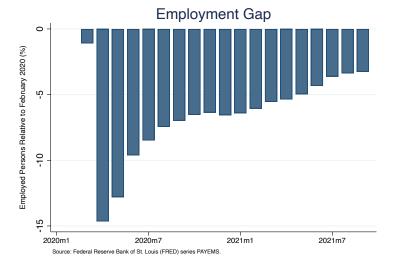


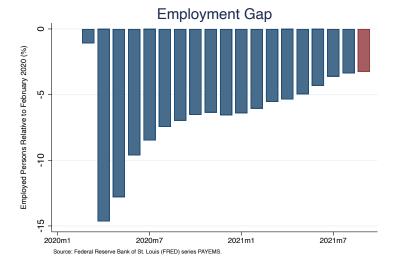


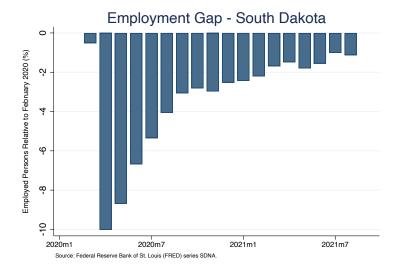


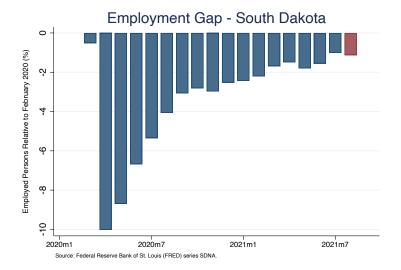


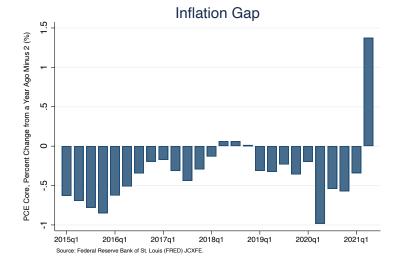


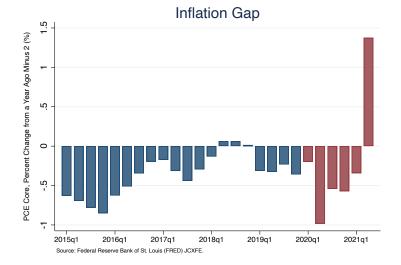






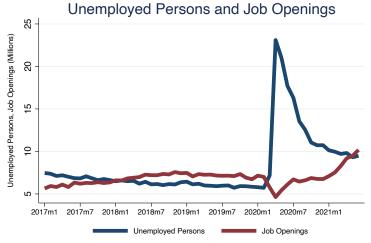




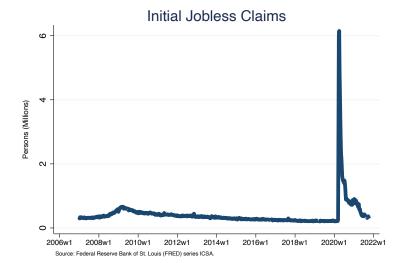


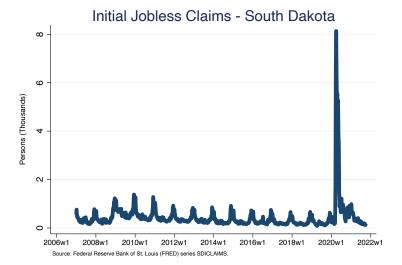
Output | Employment | Inflation

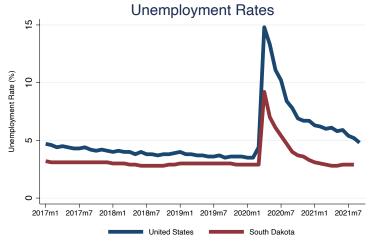
**Jolted** 



Source: Federal Reserve Bank of St. Louis (FRED) series JTSJOL & UNEMPLOY.



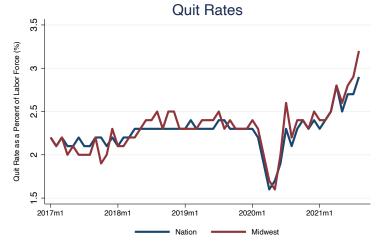




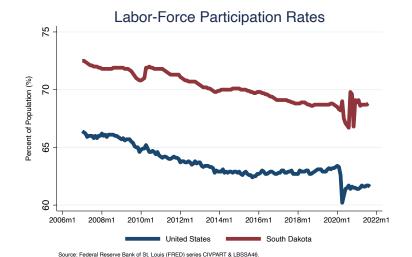
Source: Federal Reserve Bank of St. Louis (FRED) series UNRATE & SDUR.



Source: Federal Reserve Bank of St. Louis (FRED) series JTSQUR & JTS00MWQUR.

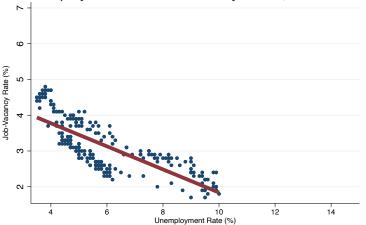


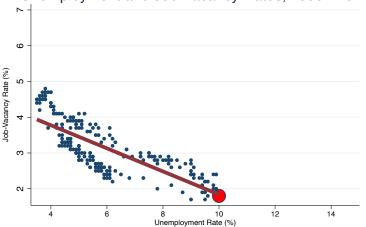
Source: Federal Reserve Bank of St. Louis (FRED) series JTSQUR & JTS00MWQUR.

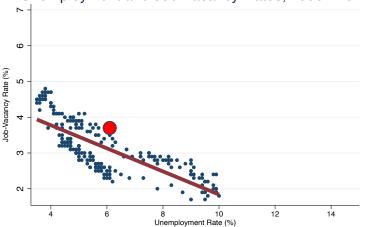


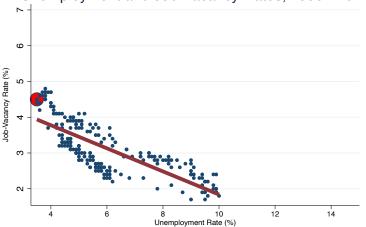
Output | Employment | Inflation

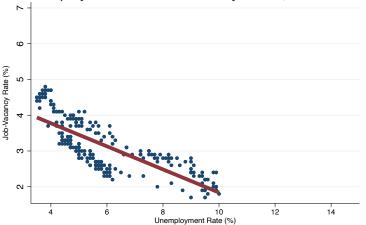
The U-V Curve

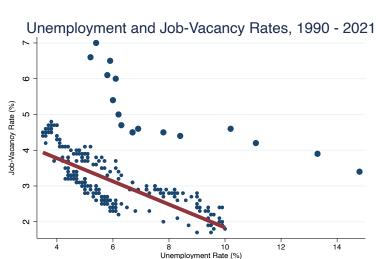


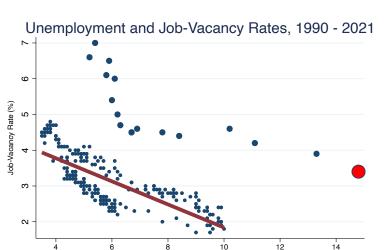




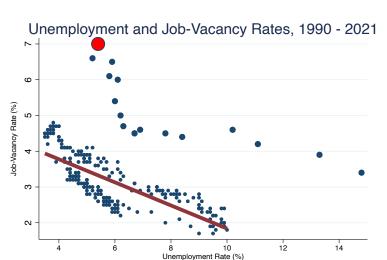




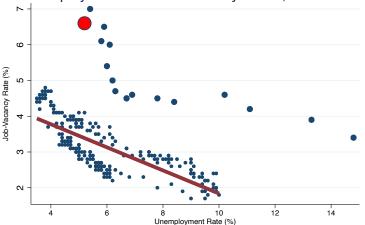




Unemployment Rate (%)



#### Unemployment and Job-Vacancy Rates, 1990 - 2021



Source: Federal Reserve Bank of St. Louis (FRED) series UNRATE & JTSJOR.

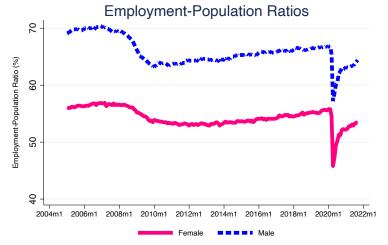
# Gaps

Output | Employment | Inflation

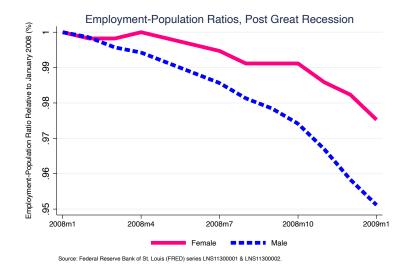
#### Gaps

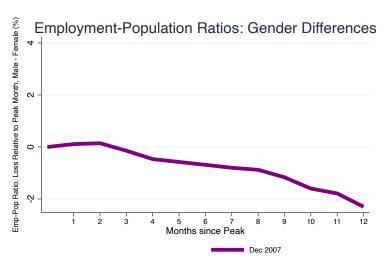
Output | Employment | Inflation

**Employment-Population Patterns** 

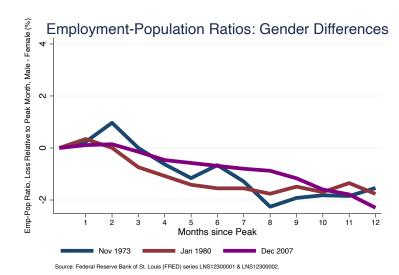


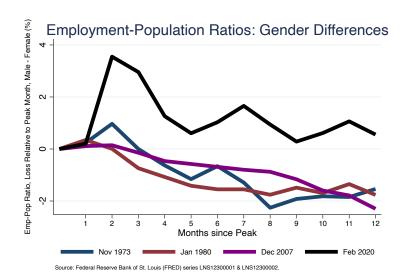
Source: Federal Reserve Bank of St. Louis (FRED) series LNS12300001 & LNS12300002.





Source: Federal Reserve Bank of St. Louis (FRED) series LNS12300001 & LNS12300002.





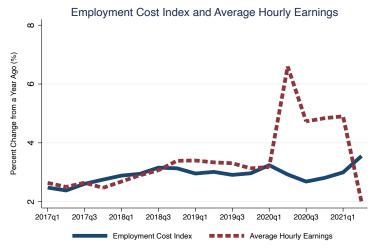
# Gaps

Output | Employment | Inflation

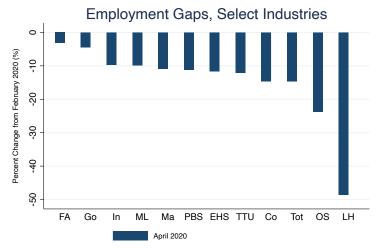
#### Gaps

Output | Employment | Inflation

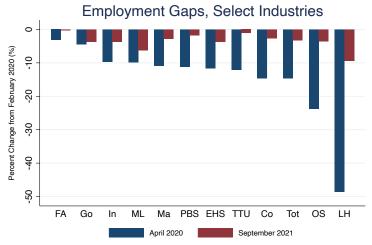
Bargaining power



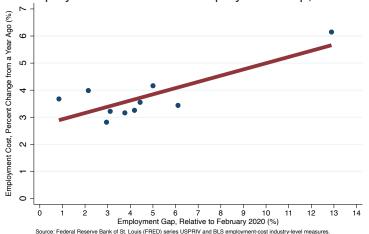
Source: Federal Reserve Bank of St. Louis (FRED) series ECIWAG & CES0500000003.

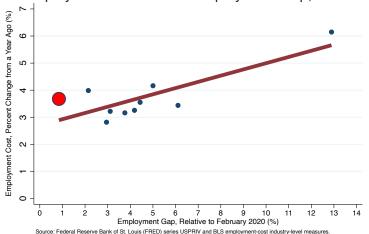


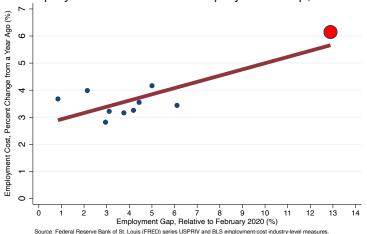
Source: Federal Reserve Bank of St. Louis (FRED) categorical series and author's calculations.

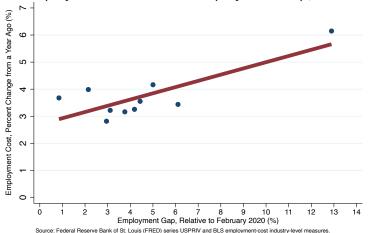


Source: Federal Reserve Bank of St. Louis (FRED) categorical series and author's calculations.









Monetary Policy | Fiscal Policy

Monetary Policy | Fiscal Policy

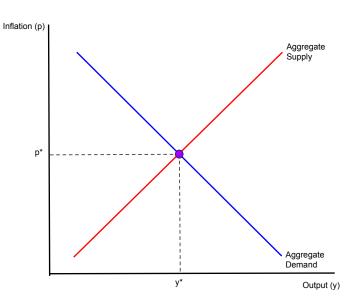
money supply and interest rates

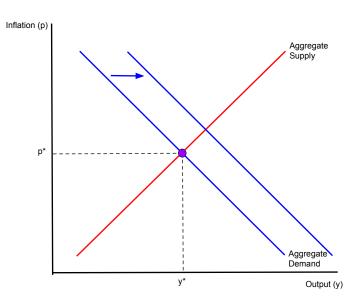
Monetary Policy | Fiscal Policy

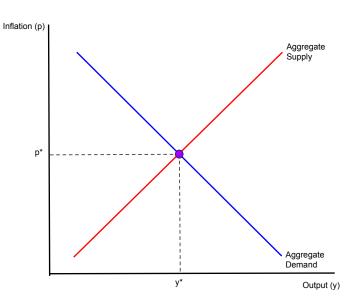
taxes, transfers, and expenditures

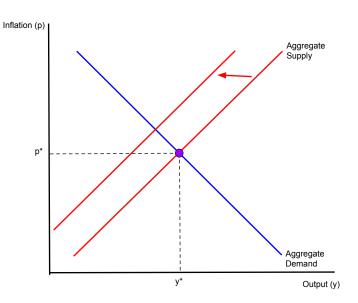
Monetary Policy | Fiscal Policy

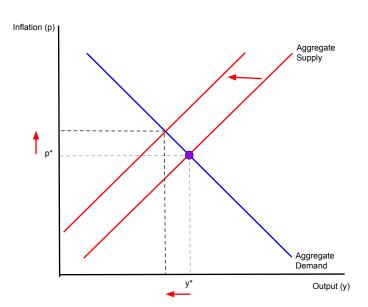
aggregate demand

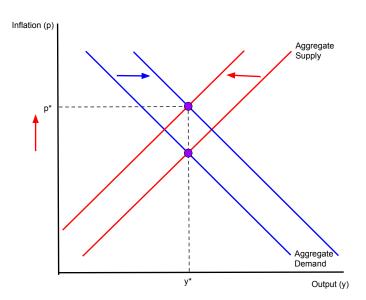












Monetary Policy

# Monetary Policy

M&Ms | Rates | Exit velocity

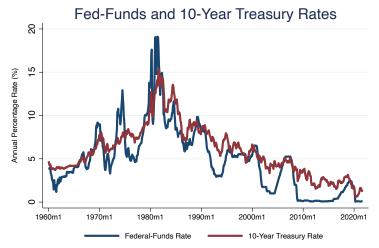
## Monetary Policy

M&Ms | Rates | Exit velocity

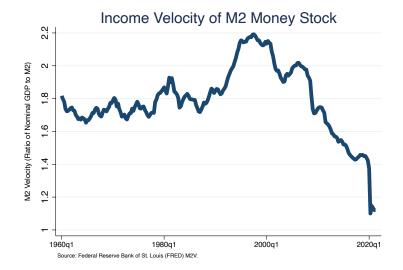
always and everywhere



Source: Federal Reserve Bank of St. Louis (FRED) series M1SL & M2SL.



Source: Federal Reserve Bank of St. Louis (FRED) series FEDFUNDS & GS10.



# Fiscal Policy

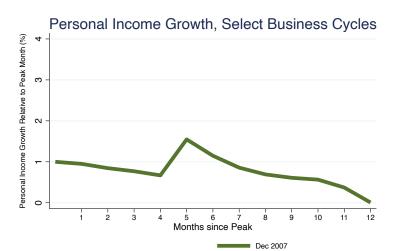
# Fiscal Policy

Personal Income | Government Debt

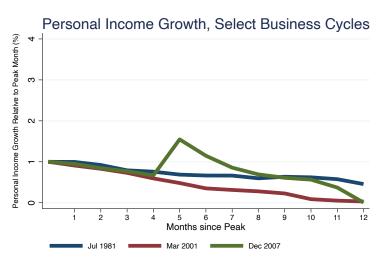
## Fiscal Policy

Personal Income | Government Debt

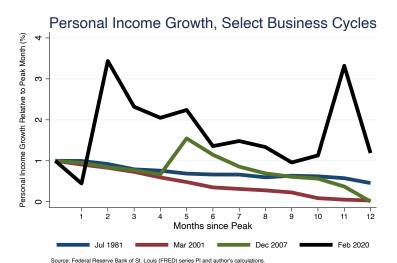
fiscal therapy

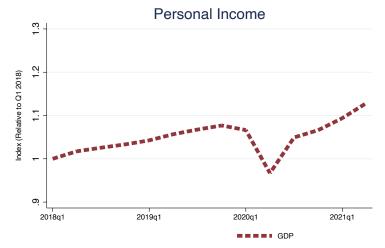


Source: Federal Reserve Bank of St. Louis (FRED) series PI and author's calculations.

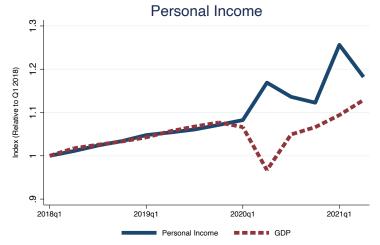


Source: Federal Reserve Bank of St. Louis (FRED) series PI and author's calculations.





Source: Author's calculations; Federal Reserve Bank of St. Louis (FRED) GDP & PINCOME.



Source: Author's calculations; Federal Reserve Bank of St. Louis (FRED) GDP & PINCOME.

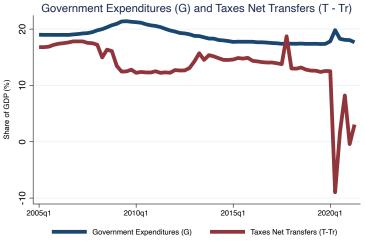
## Fiscal Policy

Personal Income | Government Debt

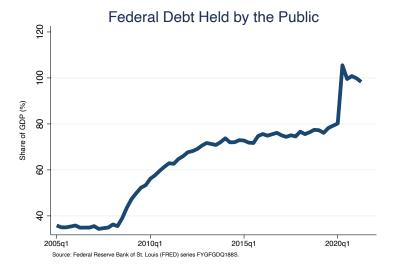
## Fiscal Policy

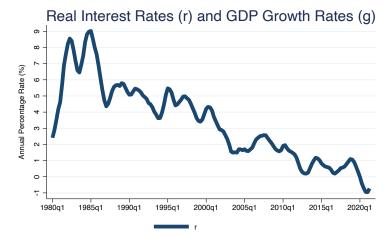
Personal Income | Government Debt

fiscal space

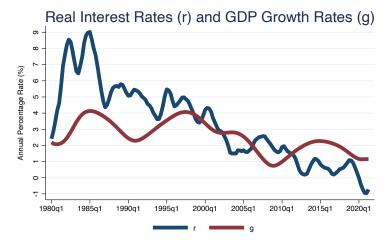


Source: Federal Reserve Bank of St. Louis (FRED) series FGEXPND, GCE, GDP, W018RC1Q027SBEA, and W006RC1Q027SBEA.

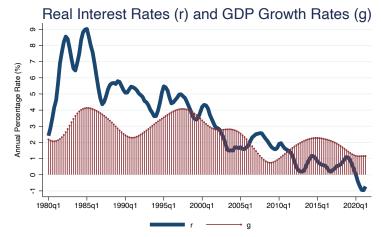




Source: Author's calculations; Federal Reserve Bank of St. Louis (FRED). r measures the four-quarter moving average of the ex-post real constant yield to maturity on the 10-year US Treasury bond (based on the annualized quarterly growth rate of the HP-smoothed GDP deflator); g measures the annualized quarterly growth rate of HP-smoothed real GDP.



Source: Author's calculations; Federal Reserve Bank of St. Louis (FRED). r measures the four-quarter moving average of the ex-post real constant yield to maturity on the To-year US Treasury bond (based on the annualized quarterly growth rate of the HP-smoothed GDP deflator); g measures the annualized quarterly growth rate of HP-smoothed real GDP.



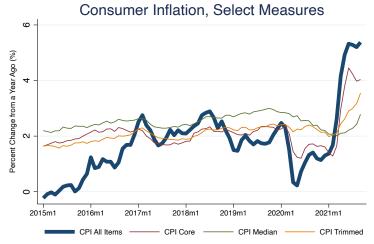
Source: Author's calculations; Federal Reserve Bank of St. Louis (FRED). r measures the four-quarter moving average of the ex-post real constant yield to maturity on the 10-year US Treasury bond (based on the annualized quarterly growth rate of the HP-smoothed GDP deflator); g measures the annualized quarterly growth rate of HP-smoothed real GDP.

# Inflationary Pressures

by measure



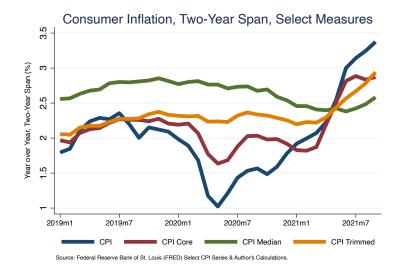
Source: Federal Reserve Bank of St. Louis (FRED) series CPIAUCSL, MEDCPIM094SFRBCLE, & TRMMEANCPIM094SFRBCLE.

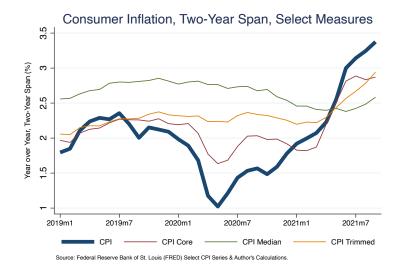


Source: Federal Reserve Bank of St. Louis (FRED) series CPIAUCSL, MEDCPIM094SFRBCLE, & TRMMEANCPIM094SFRBCLE.



Source: Federal Reserve Bank of St. Louis (FRED) series CPIAUCSL, MEDCPIM094SFRBCLE, & TRMMEANCPIM094SFRBCLE.

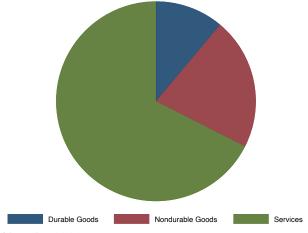




## Inflationary Pressures

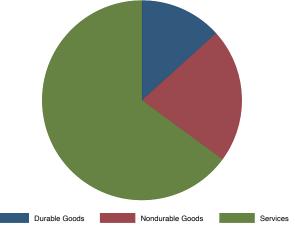
by category

#### Personal Consumption Expenditure Shares, Q4 2019



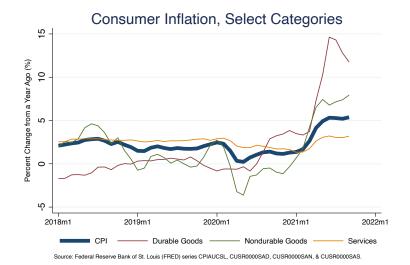
Source: U.S. Bureau of Economic Analysis

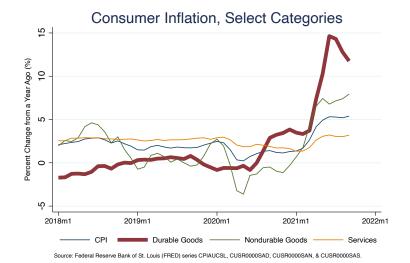
#### Personal Consumption Expenditure Shares, Q2 2021

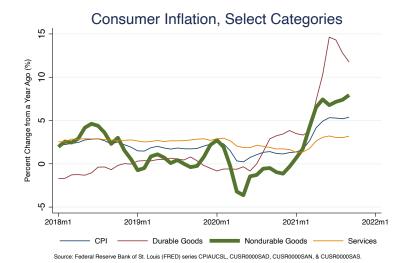


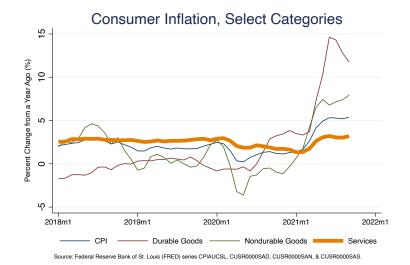
Source: U.S. Bureau of Economic Analysis





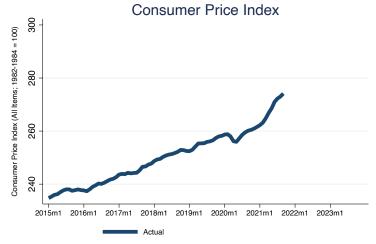




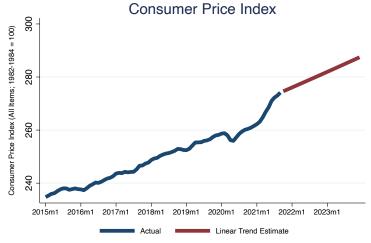


# Inflationary Pressures

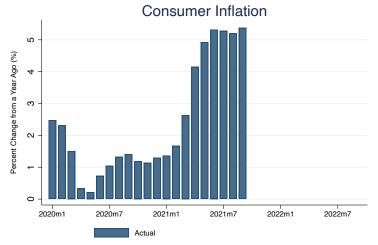
by construction



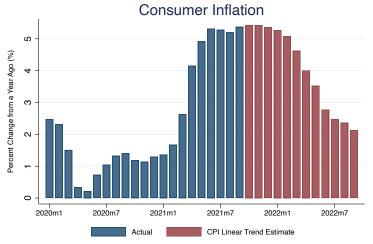
Source: Federal Reserve Bank of St. Louis (FRED) series CPIAUCSL and author's calculations.



Source: Federal Reserve Bank of St. Louis (FRED) series CPIAUCSL and author's calculations.



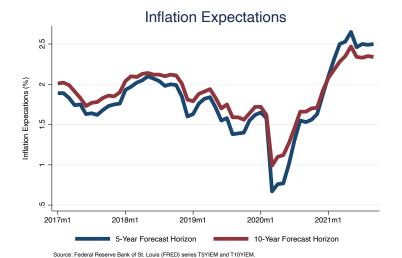
Source: Federal Reserve Bank of St. Louis (FRED) series CPIAUCSL and author's calculations.



Source: Federal Reserve Bank of St. Louis (FRED) series CPIAUCSL and author's calculations.

# Inflationary Pressures

by action



# Thank you